

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
PP21566.002	ACTION as w	rell as, where applicable, Item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US2004/036955	04/11/2004	04/11/2003
Applicant		
CHIRON CORPORATION		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching A ansmitted to the International Bureau.	uthority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in the	nis report.
Basis of the report     a. With regard to the language, the language in which it was filed, unit	international search was carried out on the tess otherwise Indicated under this item.	pasis of the international application in the
The international this Authority (Ru		nslation of the international application furnished to
b. X With regard to any nucleo	otide and/or amino acid sequence disclose	ed in the International application, see Box No. I.
2. X Certain claims were fou	nd unsearchable (See Box II).	
3. Unity of invention is lac	king (see Box III).	
4. With regard to the title,		
X the text is approved as su	ibmitted by the applicant.	
the text has been establis	shed by this Authority to read as follows:	
·		
	·	
5. With regard to the abstract,		
	ubmitted by the applicant.	
		ority as it appears in Box No. IV. The applicant earch report, submit comments to this Authority.
6. With regard to the drawings,		
	published with the abstract is Figure No.	
as suggested by		· · · · · · · · · · · · · · · · · · ·
as selected by the	is Authority, because the applicant failed to	suggest a figure.
	is Authority, because this figure better chara	cterizes the invention.
b. X none of the figures is to b	e published with the abstract.	



nternational application No.

PCT/US2004/036955

Вох	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of Item 1.b of the first sheet)
1.	With	regard to any nucleotide and/or amino acid sequence disclosed in the International application and necessary to the claimed tion, the International search was carried out on the basis of:
	a.	type of material  X a sequence listing table(s) related to the sequence listing
	b.	format of material  X in written format  In computer readable form
	c.	time of filing/furnishing  Contained in the international application as filed  filed together with the international application in computer readable form  furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addit	ional comments:
		•

In ational Application No
PCT/US2004/036955

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K39/395 A61P35/00
//C07K16/28

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, EMBASE, BIOSIS, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
A	WO 02/060485 A (IDEC PHARMACEUTICALS CORPORATION; HARIHARAN, KANDASAMY; HANNA, NABIL) 8 August 2002 (2002-08-08) page 26	1-28
A	US 5 801 227 A (FANSLOW, III ET AL) 1 September 1998 (1998-09-01) the whole document	1-28
<b>A</b>	WO 95/17202 A (IMMUNEX CORPORATION) 29 June 1995 (1995-06-29) the whole document	1-28
A	US 5 874 082 A (DE BOER ET AL) 23 February 1999 (1999-02-23) the whole document	1–28
	-/	1

Further documents are listed in the continuation of box C.	Patient ramily members are listed in annex.
Special categories of cited documents:      A* document defining the general state of the art which is not considered to be of particular relevance.	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
<ul> <li>"E" earlier document but published on or after the International filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the International filing date but later than the priority date claimed</li> </ul>	<ul> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
4 May 2005	17/06/2005
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentiaan 2  NL – 2280 HV Rijswijk	Authorized officer
TeL (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Wagner, R

3

In Itional Application No
PCT/US2004/036955

Category °	tion) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
- Aregory	Onadon or occasional minimation, minimation privilegio, or the following passenges	The state of the s
`	WO 96/18413 A (THE UNIVERSITY OF BIRMINGHAM) 20 June 1996 (1996-06-20) the whole document 	1-25
	_	
	·	
	<del>.</del>	

3



international application No. PCT/US2004/036955

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Although claims 1-28 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows: As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not Invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Information on patent family members

In Cational Application No
PCT/US2004/036955

					2004/ 030935
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 02060485	Α	08-08-2002	US	2002006404 A1	17-01-2002
			US	2002028178 A1	07-03-2002
			US	2002159996 A1	31-10-2002
			AU	6461201 A	21-01-2002
			CA	2415100 A1	17-01-2002
			CA	2436180 A1	08-08-2002
			CA	2444661 A1	08-08-2002
			CN	1446104 A	01-10-2003
			CN	1494433 A	05-05-2004
			EP	1305045 A1	02-05-2003
			EP	1370292 A1	17-12-2003
			EP	1372724 A2	02-01-2004
			JP	2004502742 T	29-01-2004
			JP	2005503999 T	10-02-2005
			JP	2005503326 T	03-02-2005
			MX	PA03000306 A	05-04-2004 12-03-2003
			NO NO	20030128 A 20033417 A	30-09-2003
			NO	20033417 A 20033418 A	30-09-2003
			WO	0204021 A1	17-01-2002
			WO	02060484 A1	08-08-2002
			WO	02060485 A2	08-08-2002
			WO	03039486 A2	15-05-2003
			ÜS	2003103971 A1	05-06-2003
			US	2003180290 A1	25-09-2003
US 5801227	A	01-09-1998	AT	255906 T 15-12-2003	
			AU	686230 B2	05-02-1998
			AU	7681994 A	01-05-1995
			CA	2172376 A1	13-04-1995
			DE	69433406 D1	22-01-2004
			DE	69433406 T2	07-10-2004
			DK Ep	724456 T3 0724456 A1	13-04-2004
			ES	2211884 T3	07-08-1996 16-07-2004
			FI	961285 A	20-03-1996
			JP	9504169 T	28-04-1997
			NO	961151 A	21-03-1996
			NZ	273504 A	19-12-1997
			PT	724456 T	30-04-2004
			WO	9509653 A1	13-04-1995
WO 9517202	Α	29-06-1995	AT	267607 T	15-06-2004
			AU	680102 B2	17-07-1997
			AU	1516895 A	10-07-1995
			CA	2179196 A1	29-06-1995
			DE 69433820 D1 01-07-2004		
			DK	751781 T3	09-08-2004
			EP	0751781 A1	08-01-1997
			ES JP	2222463 T3	01-02-2005 15-07-1007
			NO	9507074 T 962526 A	15-07-1997 23-08-1996
			NZ	278740 A	27-05-1998
			NZ	278740 A 329403 A	29-09-2000
			PT	751781 T	30-09-2004
			WO	9517202 A1	29-06-1995
			US	5674492 A	07-10-1997
					U/ 10 133/

Information on patent family members

In lational Application No
PCT/US2004/036955

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5874082	A	23-02-1999	ÚS	5677165 A	14-10-1997
			US	5397703 A	14-03-1995
			AT	212038 T	15-02-2002
			AU	2190997 A	10-09-1997
			DE	69709632 D1	28-02-2002
			DE	69709632 T2	08-08-2002
			EP	0896585 A1	17-02-1999
			WO	9731025 A1	28-08-1997
			AT	258595 T	15-02-2004
			DE	69333403 D1	04-03-2004
			DE	69333403 T2	11-11-2004
			EP	0651797 A1	10-05-1995
			EP	0945465 A1	29-09-1999
			US	6056959 A	02-05-2000
			US	6004552 A	21-12-1999
			US	6315998 B1	13-11-2001
			US	2002106371 A1	08-08-2002
			CA	2125472 A1	20-01-1994
			JP	7509359 T	19-10-1995
			JP	3514759 B2	31-03-2004
			JP	2003081871 A	19-03-2003
			JP	2003119153 A	23-04-2003
			US	5869050 A	09-02-1999
			WO	9401547 A2	20-01-1994
			US	5747034 A	05-05-1998
WO 9618413	Α	20-06-1996	AT	203676 T	15-08-2001
			AU	691996 B2	28-05-1998
			AU	3988495 A	03-07-1996
			CA	2207779 A1	20-06-1996
			DE	69522012 D1	06-09-2001
			DE	69522012 T2	25-04-2002
			EP	0806963 A1	19-11-1997
			FI	972484 A	12-06-1997
			WO	9618413 A1	20-06-1996
			JP	10510526 T	13-10-1998
			NO	972732 A	13-06-1997
			NZ	296161 A	26-10-2001